



#### Reliable

Reliable measurement, even under difficult process conditions

#### Cost effective

Maintenance-free operation of the plant

#### User friendly

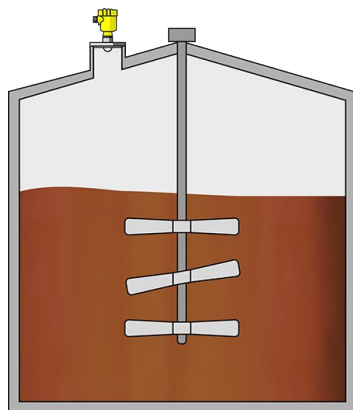
Simple installation and commissioning

## Coupling vessel

### Level measurement in the coupling vessel

The main reaction in colour pigment production takes place in the 'coupling' vessel. So named as a type of coupling reaction occurs here to form a synthetic 'azo dye', which is then converted into different colour pigments in subsequent process steps. An agitator in the tank ensures constant mixing of the azo dye. Additionally, ice is added for cooling, as otherwise the individual components of the reaction would decompose. Level measurement is required to ensure a smooth process flow.

[More details](#)



### VEGAPULS 6X

Non-contact level measurement with radar in the coupling vessel

- Precise measuring results, independent of pressure, temperature, gas and steam
- Reliable level measurement, even with foam and agitators
- Encapsulated antenna system prevents buildup

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**VEGAPULS 6X**  
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**Measuring range - Distance**

120 m

**Process temperature**

-196 ... 450 °C

**Process pressure**

-1 ... 160 bar

**Accuracy**

± 1 mm

**Frequency**

6 GHz

26 GHz

80 GHz

**Beam angle**

≥ 3°

**Materials, wetted parts**

PTFE

PVDF

316L

PP

PEEK

**Threaded connection**

≥ G¾, ≥ ¾ NPT

**Flange connection**

≥ DN20, ≥ ¾"

**Hygienic fittings**

Clamp ≥ 1½" - DIN32676, ISO2852

Slotted nut ≥ 2", DN50 - DIN 11851

Varivent ≥ DN25

hygienic fitting with tension flange DN32

hygienic fitting F40 with compression nut

Hygienic screw connections ≥ DN50 tube ø53 -

DIN11864-1-A

Hygienic flange connection ≥ DN50 DIN11864-2

Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-

3-A

DRD connection ø 65 mm

SMS 1145 DN51